

**In the Claims:**

Please amend the claims pursuant to 37 CFR 1.121 as follows.

Please cancel claim 1 and 7 without prejudice, and replace with claim 10 and 11.

1. (Cancelled)
2. (currently amended) The method Method according to claim 4 10, wherein the radon-free gas is air.
3. (currently amended) The method Method according to claim 4 10, further providing the step of discharging wherein the gas, after departing from the radon measuring equipment unit, is discharged to into the ambient surroundings.
4. (currently amended) The method Method according to claim 4 10, wherein the water and the measuring gas are conducted in the guided counter-current along the membrane.
5. (currently amended) The method Method according to claim 4 10, wherein the water and the measuring gas are conducted guided parallel to the membrane.
6. (currently amended) The method Method according to claim 4 10, wherein the gas zone is a diffusion hose.
7. (canceled)
8. A device Device according to claim 7 11, wherein the outlet of the radon measuring equipment unit opens out in the ambient air.
9. A device Device according to claim 7 11, wherein the gas zone is a diffusion hose.

10. (new) A method for continual detection of changes in concentration of radon gas dissolved in water, comprising the steps of:

continuously pumping a continuous flow of radon-free gas through a zone including water-tight and a gas-permeable membrane and being surrounded by water;

providing a radon measuring equipment unit for receiving the radon-free gas coming from the zone and from which the radon-free gas exits;

continually measuring the changes in the concentration of the radon-free gas.

11. (new) A device for continual detection in changes of concentration of radon gas dissolved in water comprising:

a gas source providing a continuous flow of gas;

a gas zone having an inlet and an outlet and being immersed in flowing water;

a radon measuring equipment unit having an inlet and an outlet;

the gas source providing an continuous flow of gas being connected to the inlet of the gas zone; and

the outlet of the gas zone being connected to the inlet of a radon measuring equipment unit from where the flow of gas exits.